

What is claimed is:

1. A biological safety cabinet comprising:
  - a) a work chamber having a contaminated air discharge opening and a return air inlet;
  - 5 b) a single fan for conveying air from said discharge opening to said return air inlet;
  - c) a first HEPA filter between said fan and said discharge opening; and
  - d) an air exhaust port downstream of said fan, said fan being the only means for conveying air within the cabinet, whereby a positive pressure is created
- 10 downstream of said fan so that a portion of the air is exhausted through the exhaust port and a portion of the air is returned to the work chamber.
2. The cabinet of claim 1, further including a second HEPA filter between said exhaust port and said work chamber.
3. The cabinet of claim 1, wherein said first HEPA filter is positioned horizontally above said work chamber, and said fan is beneath said first HEPA filter.
- 15 4. The cabinet of claim 1, wherein said cabinet has a front wall and said exhaust port extends from the front wall of said cabinet.
5. The cabinet of claim 1, wherein said chamber includes a bottom wall having a front edge and a rear edge, said chamber having discharge openings adjacent
- 20 the front and rear edges of said bottom wall.
6. The cabinet of claim 1, wherein said exhaust port includes a filter.
7. A biological safety cabinet having a makeup air inlet comprising:

- a) a work chamber having a contaminated air discharge opening;
  - b) a fan enclosure having an exhaust port;
  - c) a conduit extending from said contaminated air outlet to said fan enclosure;
- 5           d) a first HEPA filter between said contaminated air outlet and said fan enclosure; and
- e) a fan within said fan enclosure to convey air through said conduit from said contaminated air outlet and said makeup air inlet into said fan enclosure, and to discharge air under positive pressure from said fan enclosure through said exhaust port and back into said work chamber.
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8.       The cabinet of claim 7, further including a second HEPA filter between said fan enclosure and said work chamber.
9.       The cabinet of claim 7, further including a filter covering said exhaust port.
- 15       10.      The cabinet of claim 7, wherein said fan enclosure is above said work chamber.
11.      The cabinet of claim 7, wherein said fan enclosure includes a top wall, said first HEPA filter extending across said top wall.
12.      A biological safety cabinet comprising:
- 20       a) a work chamber having a contaminated air discharge opening;
- b) a fan enclosure above said work chamber, said enclosure having an exhaust port, a top and a bottom;

- c) a conduit extending from said discharge opening to said fan enclosure;
- d) a first HEPA filter between said conduit and said fan enclosure;
- e) a second HEPA filter between said fan enclosure and said work chamber; and

5                   f) a fan within said fan enclosure to convey air through said conduit through said first HEPA filter and into said fan enclosure, and to discharge air under positive pressure from said fan enclosure through said exhaust port and through said second HEPA filter into said work chamber.

13.         The cabinet of claim 12, wherein said conduit extends to the top of said  
10         fan enclosure.

14.         The cabinet of claim 12, wherein said HEPA filter extends across the top  
of said fan enclosure.

15.         The cabinet of claim 12, wherein said first and second HEPA filters are  
horizontal and parallel to each other.

16.         The cabinet of claim 12, wherein said fan enclosure has a front, said  
exhaust port being in the front of said enclosure.

17.         The cabinet of claim 12, wherein said exhaust port is filtered.